

IN THE CLAIMS

Please amend the claims as follows:

1. (Previously Presented) A base station apparatus comprising:

a communication unit which communicates with a terminal apparatus at variable transmission rates;

a channel allocation unit which allocates predetermined ones of a plurality of time slots included in a frame, such that time slots in a plurality of frames consecutive over a predetermined period are allocated to the terminal apparatus, and time slots in a plurality of frames consecutive over a period other than the predetermined period are allocated to another terminal apparatus;

a change planning unit which plans timing for changing a transmission rate for the terminal apparatus in a period which is defined by a plurality of frames and in which the time slots are allocated; and

a change determination unit which determines to change the transmission rate for the terminal apparatus if a remaining period, occurring between a change in the transmission rate planned by the change planning unit and an end of the period defined by the plurality of frames and in which the time slots are allocated, is equal to or greater than a threshold value, and determines not to change the transmission rate for the terminal apparatus if the remaining period is not equal to or greater than the threshold value.

2. (Previously Presented) The base station apparatus according to claim 1, further comprising a link quality derivation unit which derives link quality with respect to the terminal apparatus, wherein

the change determination unit derives a remainder of the period defined by the plurality of frames for the case of changing the transmission rate, based on a length of the period which is defined by the plurality of frames and in which the time slots are allocated and the planned timing for changing the transmission rate, and further determines to perform the change of the transmission rate based on the derived link quality if the derived remainder of the period defined by the plurality of frames is equal to or greater than a threshold value.

3. (Original) The base station apparatus according to claim 2, wherein

for the link quality with respect to the terminal apparatus, the link quality derivation unit measures link quality based on a signal received from the terminal apparatus.

4. (Original) The base station apparatus according to claim 2, wherein

for the link quality with respect to the terminal apparatus, the link quality derivation unit detects information on link quality which is included in a signal received from the terminal apparatus.

5. (Canceled)

6. (Previously Presented) A transmission rate changing method comprising:

allocating predetermined ones of a plurality of time slots included in a frame, such that time slots in a plurality of frames consecutive over a predetermined period are allocated to a terminal apparatus, and time slots in a plurality of frames consecutive over a period other than the predetermined period are allocated to another terminal apparatus;

planning timing for changing a transmission rate for the terminal apparatus in a period which is defined by a plurality of frames and in which the time slots are allocated; and

determining to change the transmission rate for the terminal apparatus if a remaining period, occurring between a planned change in the transmission rate and an end of the period defined by the plurality of frames and in which the time slots are allocated, is equal to or greater than a threshold value, and determining not to change the transmission rate for the terminal apparatus if the remaining period is not equal to or greater than the threshold value.

7. (Previously Presented) The transmission rate changing method according to claim 6, further comprising deriving link quality with respect to the terminal apparatus, wherein

the determining includes deriving a remainder of the period which is defined by the plurality of frames for the case of changing the transmission rate from a length of the period which is defined by the plurality of frames and in which the time slots are allocated and the planned timing for changing the transmission rate, and includes determining to perform the

change of the transmission rate based on the derived link quality if the derived remainder of the period defined by the plurality of frames is equal to or greater than a threshold value.

8. (Original) The transmission rate changing method according to claim 7, wherein

in deriving the link quality with respect to the terminal apparatus, link quality based on a signal received from the terminal apparatus is measured as the link quality with respect to the terminal apparatus.

9. (Original) The transmission rate changing method according to claim 7, wherein

in deriving the link quality with respect to the terminal apparatus, information on link quality included in a signal received from the terminal apparatus is detected as the link quality with respect to the terminal apparatus.

10. (Currently Amended) A computer-readable recording medium storing a program which makes a computer execute:

allocating predetermined ones of a plurality of time slots included in a frame, such that time slots in a plurality of frames consecutive over a predetermined period are allocated to a terminal apparatus, and time slots in a plurality of frames consecutive over a period other than the predetermine period are allocated to another terminal apparatus;

planning timing for changing a transmission rate for the terminal apparatus in a period which is defined by a plurality of frames and in which the time slots are allocated; and

determining to change the transmission rate for the terminal apparatus if a remaining period, occurring between a planned change in the transmission rate and an end of the period defined by the plurality of frames and in which the time slots are allocated, is equal to or greater than a threshold value, and determining not to change the transmission rate for the terminal apparatus if the remaining period is not equal to or greater than the threshold value between a planned change in the transmission rate and an end of the channel-allocated period.

11. (Currently Amended) The computer-readable recording medium according to claim 10, which further makes a computer execute: deriving link quality with respect to the terminal apparatus via the wireless network, wherein

the determining includes deriving a remainder of the period which is defined by the plurality of frames for the case of changing the transmission rate from a length of the period which is defined by the plurality of frames and in which the time slots are allocated and the planned timing for changing the transmission rate, and includes determining to perform the change of the transmission rate based on the derived link quality if the derived remainder of the period defined by the plurality of frames is equal to or greater than a threshold value.

12. (Currently Amended) The computer-readable recording medium according to claim 11, wherein

in deriving the link quality with respect to the terminal apparatus via the wireless network, link quality based on a signal received from the terminal apparatus via the wireless network is measured as the link quality with respect to the terminal apparatus.

13. (Currently Amended) The computer-readable ~~recording~~ medium according to claim 11, wherein

in deriving the link quality with respect to the terminal apparatus via the wireless network, information on link quality included in a signal received from the terminal apparatus via the wireless network is detected as the link quality with respect to the terminal apparatus.

14. (Canceled)